IN THE CLAIMS:

Please **AMEND** claim 1, and **ADD** claims 4-20, as follows:

1. (CURRENTLY AMENDED) An information storage medium ~~for~~ which stores ~~storing~~ data recorded using a waveform, comprising:

a first state corresponding to a recording pattern of the waveform; and

a second state corresponding to an erase pattern of the waveform,

wherein:

the erase pattern comprises a multi-pulse having with a power level of a leading pulse of the erase pattern set at a low level of the multi-pulse and a power level of a trailing pulse of the erase pulse set at a high level of the multi-pulse, and

the recording pattern and the erase pattern are concatenated by a cooling pulse of the waveform.

2. (ORIGINAL) The information storage medium of claim 1, wherein:

the first state is a mark formed by a first level of an NRZI data signal, and

the second state is a space formed by a second level of the NRZI data signal.

3. (ORIGINAL) The information storage medium of claim 1, wherein:

the recording pattern comprises another multi-pulse, and

the cooling pulse extends from the multi-pulse of the recording pattern to the multi-pulse of the erase pattern.

4. (NEW) An information storage medium which stores data recorded using a waveform, comprising:

a first state corresponding to a recording pattern of the waveform; and

a second state corresponding to an erase pattern of the waveform,

wherein:

the recording pattern comprises a first multi-pulse having a plurality of first pulses,

the erase pattern comprises a second multi-pulse having a plurality of second pulses, and

a first one of the first pulses of the recording pattern being adjusted according to a property of the last one of the second pulses of the erase pattern.

5. (NEW) The information storage medium of claim 4, wherein the waveform further comprises a first cooling pulse as a portion of the recording pattern and a second cooling portion as a portion of the erase pattern.

6. (NEW) The information storage medium of claim 1, wherein the waveform includes a pulse of the recording pattern adjusted according to a pulse of the multi-pulse of the erase pattern.

7. (NEW) The information storage medium of claim 1, wherein the data recorded using the waveform is modulated according to a Run Length Limited (RLL)(1, 7).

8. (NEW) The information storage medium of claim 4, wherein the data recorded using the waveform is modulated according to a Run Length Limited (RLL)(1, 7).

9. (NEW) The information storage medium of claim 1, wherein:

the erase pattern is recorded sequentially after the recording pattern,

the recording pattern comprises another multi-pulse, and

a first one of the another multi-pulses of the recording pattern is adjusted to have a power that is other than a power of a first one of the multi-pulses of the erase pattern.

10. (NEW) The information storage medium of claim 1, wherein:

the erase pattern is recorded sequentially after the recording pattern,

the recording pattern comprises another multi-pulse, and

a first one of the another multi-pulses of the recording pattern is adjusted to have a power that is equal to a power of a first one of the multi-pulses of the erase pattern.

11. (NEW) The information storage medium of claim 9, wherein the multi-pulse of the erase pattern has a first pulse power and a second pulse power greater than the first pulse power.

12. (NEW) The information storage medium of claim 10, wherein the multi-pulse of the erase pattern has a first pulse power and a second pulse power greater than the first pulse power, and the power of the first one of the multi-pulses of the erase pattern is equal to the first pulse power.

13. (NEW) The information storage medium of claim 9, wherein the multi-pulse of the erase pattern has a first pulse power and a second pulse power greater than the first pulse power, and the power of the first one of the another multi-pulses of the recording pattern is equal to the first pulse power.

14. (NEW) The information storage medium of claim 9, wherein the another multi-pulse of the recording pattern further comprises a recording pulse having a recording power greater than the power of the first one of the pulses of the recording pattern.

15. (NEW) The information storage medium of claim 10, wherein the another multi-pulse of the recording pattern further comprises a recording pulse having a recording power greater than the power of the first one of the pulses of the recording pattern.

16. (NEW) The information storage medium of claim 1, wherein the cooling pulse is concatenating and included in the recording and erase patterns and has a cooling power less than a power of a first pulse of the multi-pulse of the erase pattern.

17. (NEW) The information storage medium of claim 9, wherein the cooling pulse has a cooling power less than the power of a last pulse of the another multi-pulse of the recording pattern and a power of the first pulse of the multi-pulse of the erase pattern.

18. (NEW) The information storage medium of claim 1, wherein the cooling pulse has a cooling power less than a recording power of the recording pattern and a power of a first pulse of the multi-pulse of the erase pattern.

19. (NEW) An information storage medium which stores data recorded using a waveform, comprising:

a first state corresponding to a recording pattern of the waveform; and

a second state corresponding to an erase pattern of the waveform,

wherein:

the erase pattern comprises a multi-pulse having a power level of a leading pulse of the erase pattern set to a high level of the multi-pulse and a power level of a trailing pulse set to a high level of the multi-pulse, and

the recording pattern and the erase pattern are concatenated by a cooling pulse of the waveform.

20. (NEW) An information storage medium which stores data recorded using a waveform, comprising:

a first state corresponding to a recording pattern of the waveform; and

a second state corresponding to an erase pattern of the waveform,

wherein:

the erase pattern comprises a multi-pulse having a power level of a leading pulse of the erase pattern set to a low level of the multi-pulse and a power level of a trailing pulse set to a low level of the multi-pulse, and

the recording pattern and the erase pattern are concatenated by a cooling pulse of the waveform.